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ABSTRACT

2 A quick release detachable wheel hub assembly is shown for a lightweight manual
3 wheelchair. The wheelchair wheels mount on exterior hubs and rotate therewith. The inner
4 face out of each of the exterior hubs mates with an opposing outer face of interior hubs. One of
5 the opposing faces on the hubs has a projection or a plurality of projections which fit snugly into
6 corresponding openings on the opposing face of the other hub when the opposing faces of the
7 hubs are mated. The interior hubs are mounted and rotate on detachable axles which screw
8 into the wheelchair frame. A quick release, removable locking pin is inserted through the center
9 of the hubs and into detachable axle and locked in place and thereby causing the hubs to be
10 locked and rotate together. The wheels are quickly detached by simply removing the locking
11 pins and pulling apart the hubs.

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